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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/577,545	09/11/2006	Ib Helmer Nielsen	PATRADE	2263
James C. Wray	7590 12/16/200	EXAMINER		
1493 Chain Br		MCMAHON, MARGUERITE J		
Suite 300 McLean, VA 2	22101		ART UNIT	PAPER NUMBER
,			3741	
			MAIL DATE	DELIVERY MODE
			12/16/2009	DADED

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

xaminer	Art Unit		
0/577,545	NIELSEN, IB HELMER		
pplication No.	Applicant(s)		

Office Action Summary	Examiner	Art Unit					
	Marguerite J. McMahon	3741					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1-136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If No period of reply is specified adver, the nearman statetop yearded will apply and will expire SIX (6) MONTHS from the maining date of this communication. - If No period of reply is specified adver, the nearman statetop yearded will apply and will expire SIX (6) MONTHS from the maining date of this communication. - Any reply received by the Office later ham three months after the mailing date of this communication, even if timely filed, may reduce any carried patient from adjustment. See 37 CFR 1-1704(b).							
Status							
Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1,4,5 and 11</u> is/are pending in the app	lication.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1.4.5 and 11</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ⊠ All b) □ Some * c) □ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (FTO/SB/00) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application					

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DETAILED ACTION

Applicant is requested to send in an English translation of the German reference, Irie et al (DE 3909772).

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the sensor means including two reference sensors that are displaced from each other along a circumferential direct ion of the main shaft must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 4, 5, and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention,

In claim 1 (and the dependent claims, as applicable), the use of the following terms lack antecedent basis: "the main shaft", "said sensor means", "the main shaft/engine piston", "the angle position", "the angular speed". The term "reference means", "index reference means", "index sensor", and "resolver" are unclear. Please explain what these terms mean, or use terms that are more representative of the meaning being indicated.

In line 6 of claim 1 "thereby also position of the piston sensor means detecting position of the reference means and thereby angular position as well as angular speed" is unclear. In line 8 of claim 1 the subject matter of "which" is unclear. In line 11 of claim 1 "it" is unclear, as there is no clear indication as to which element "it" refers to. In lines 14-15 of claim 1, there is no clear subject or purpose for the phrase "for detecting speed...parameters"

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Regarding claim 4, the phrase "preferably" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d), and "the flywheel" lacks antecedent basis.

Response to Arguments

Applicant's arguments with respect to claims 1, 4, 5, and 11 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marguerite J. McMahon whose telephone number is 571-272-4848. The examiner can normally be reached on Monday- Friday, 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Cuff can be reached on 571-272-6778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marguerite McMahon Primary Examiner Art Unit 3741

/Marguerite McMahon/ Primary Examiner, Art Unit 3741